

PATENT ABSTRACTS OF JAPAN

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(54) FLOATING HEAD SLIDER

(57)Abstract:

PURPOSE: To prevent a floating surface from being damaged by reproducing an air bearing even when dust, etc., is stuck on the floating surface by providing a shape memory floating surface formed with a shape memory material at least at a part of the floating surface, connecting a heating means, and floating a head slider in a short time.

CONSTITUTION: A time when a disk 2 is brought into contact with a floating head slider 4 can be shortened by heating the shape memory floating surface 20 by the current controller 15 of the heating means 14, and expanding the area of the floating surface of the floating head slider. Meanwhile, the slider 4 should be floated with a prescribed floating quantity hN over the plane of the disk 2 rotating at prescribed revolution speed VN to perform the write and readout of data on the plane of the disk 2. When the floating surface is continued to be heated, the floating quantity exceeds hN . However, since the area of the floating surface is returned to an initial value by stopping heating, conditions for VN and hN can be simultaneously satisfied.

